

*PARTS OF THE*  
**Nos. 5 to 12 FOUR-ROLLER**  
**OPTIMUS PRESSES**

**Babcock Press Parts & Service Inc.**

P. O. BOX 950

CANTON, OHIO 44701

*PARTS OF THE*  
Nos. 5 to 12 FOUR-ROLLER  
OPTIMUS PRESSES



Babcock Printing Press Corporation  
New London, Connecticut  
Catalog KK-9146-2000



## INSTRUCTIONS FOR ORDERING PARTS

### Read Carefully Before Ordering

1. Always state shop number of press, which may be found stamped on side frame, feeder's side, under the cylinder shaft, (see Plate No. 1); also on corner of the bed. If shop number can not be found, give size of press bed and style of machine, i. e., trade name.
2. Never order by numbers found cast or stamped upon parts.
3. After finding part wanted, always refer to the Numerical Index to be sure that no mistake is made.
4. If part wanted cannot be easily found on any of the plates, it may be found by referring to the Classified Index. If the part is not listed in the catalogue, send a drawing of it, with dimensions; or, an imprint made by giving the part wanted a light coat of printers' ink and pressing firmly upon a sheet of paper, taking care to make a distinct outline and to show exact location of holes, if any. A still better way is to send the broken pieces to the factory; in some cases this is necessary, especially on old machines.
5. State how to ship; whether by mail, express or freight.
6. Terms of payment are net cash, thirty days, f. o. b. factory, New London, Connecticut.











When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

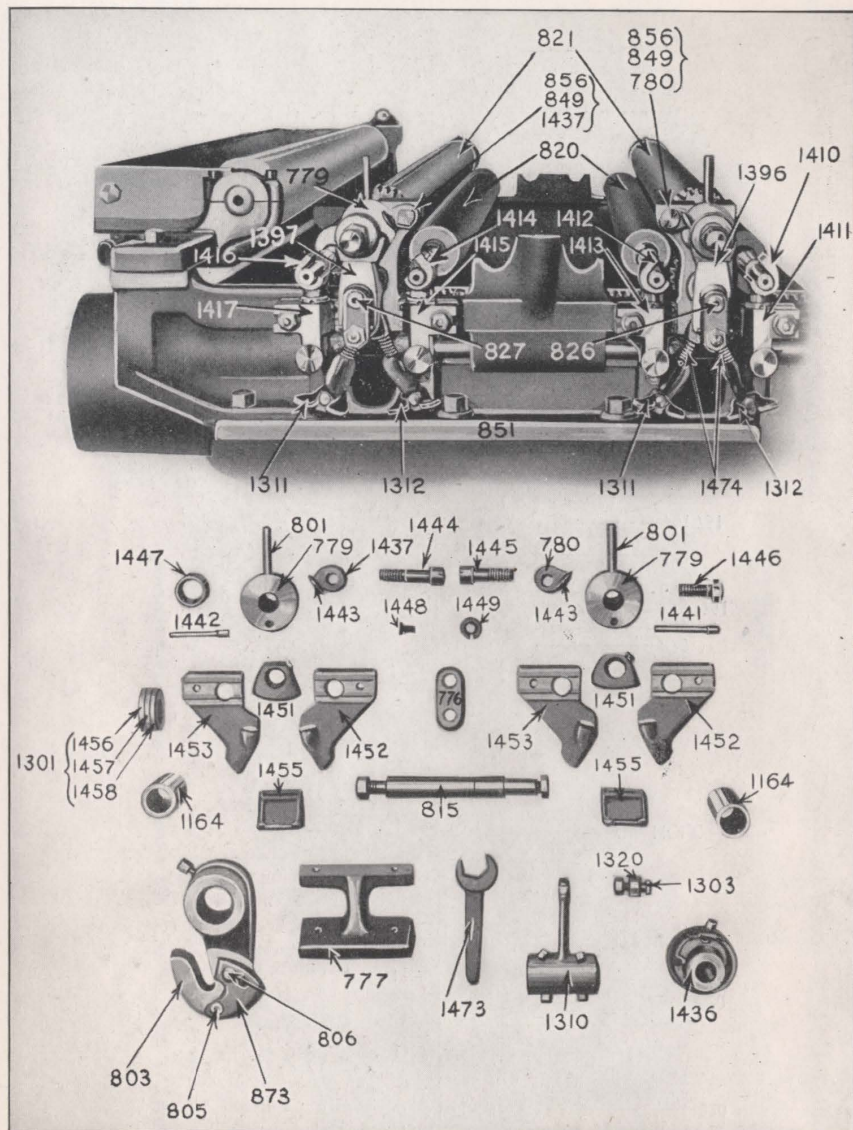


PLATE NO. 5

Always compare numbers on plate with the numerical index before ordering.

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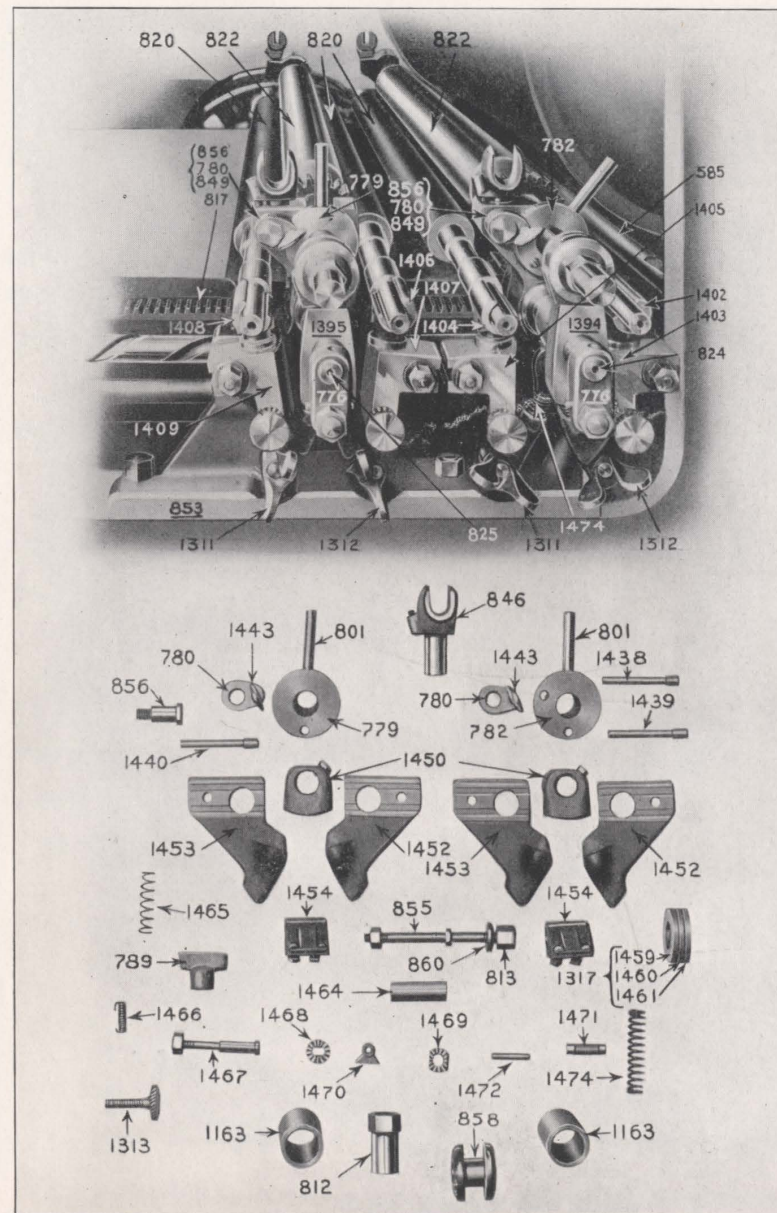


PLATE NO. 6

Always compare numbers on plate with the numerical index before ordering.



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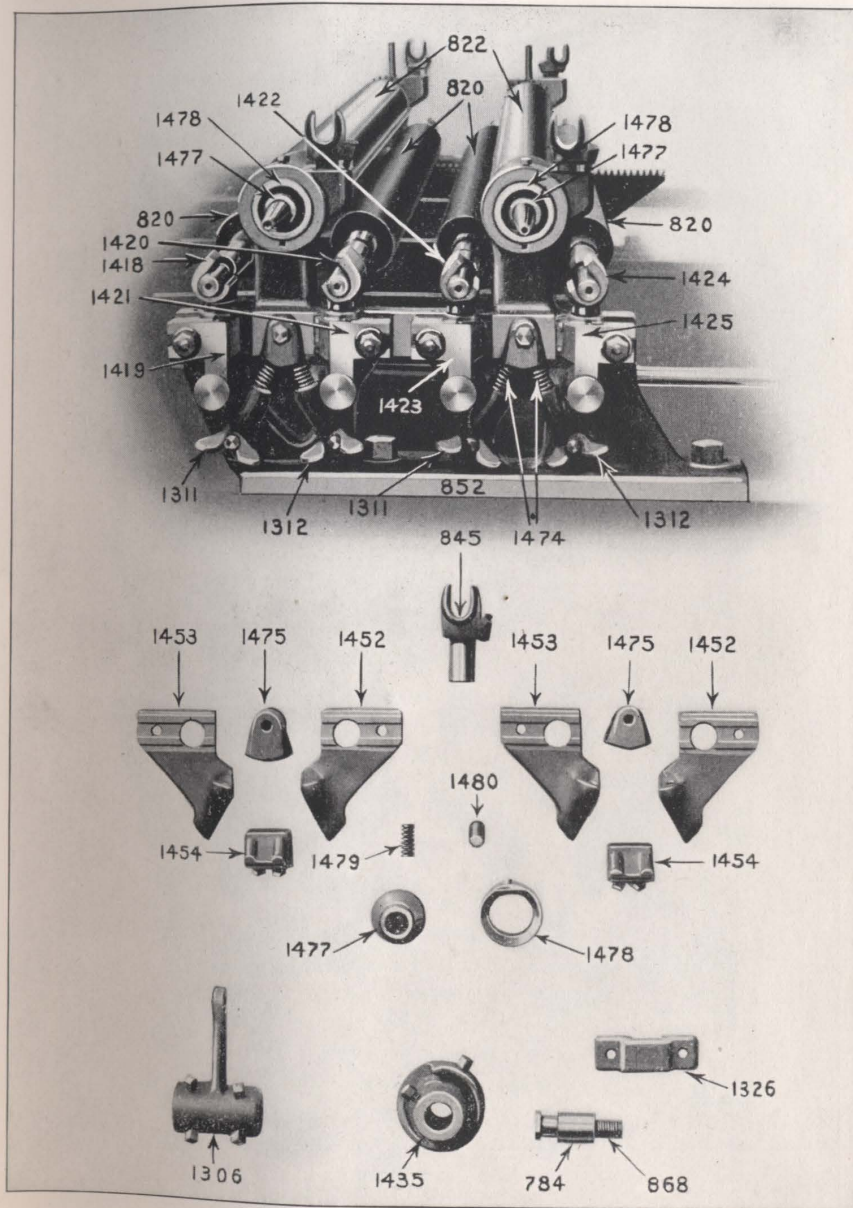


PLATE NO. 7

Parts which are the same as opposite side are not numbered here. See Plate No. 6.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

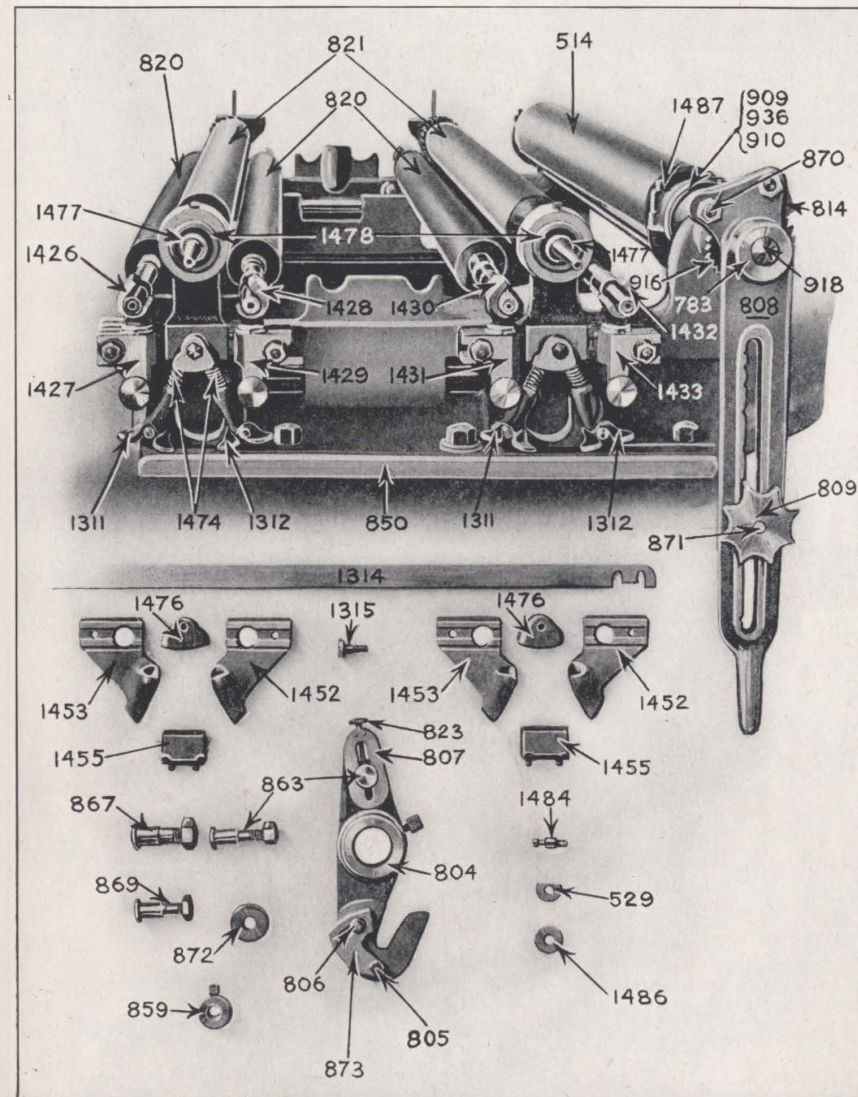


PLATE NO. 8

Parts which are the same as opposite side are not numbered here. See Plate No. 5.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

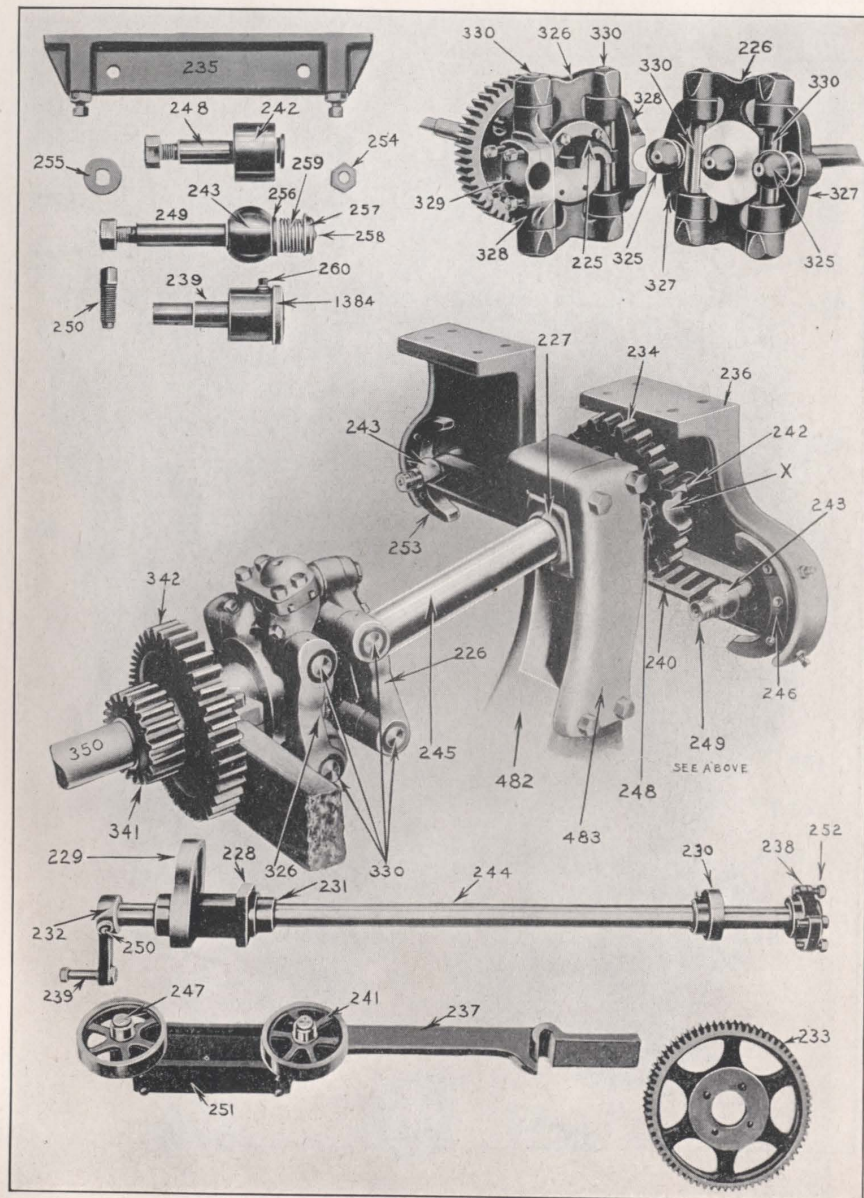


PLATE NO. 9

Always compare numbers on plate with the numerical index before ordering.

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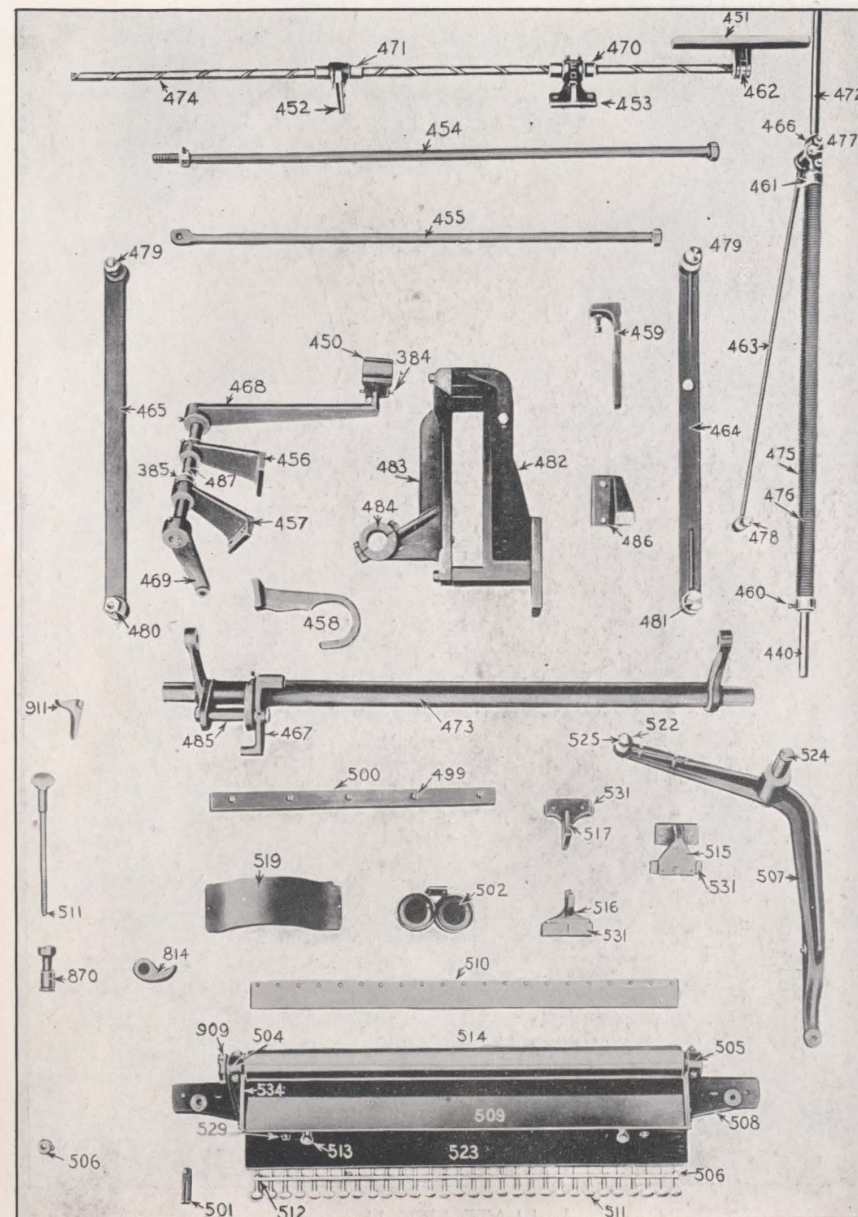


PLATE NO. 10

Always compare numbers on plate with the numerical index before ordering



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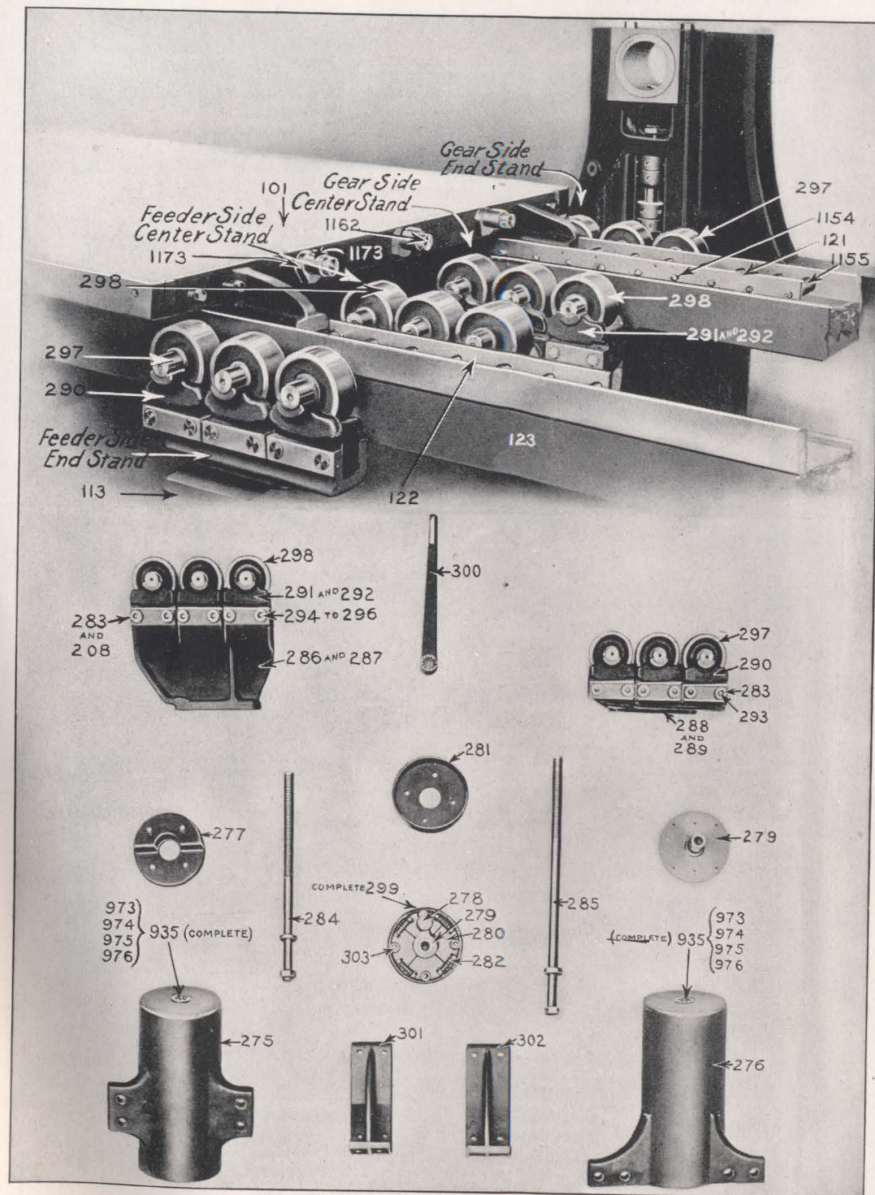


PLATE NO. 11

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

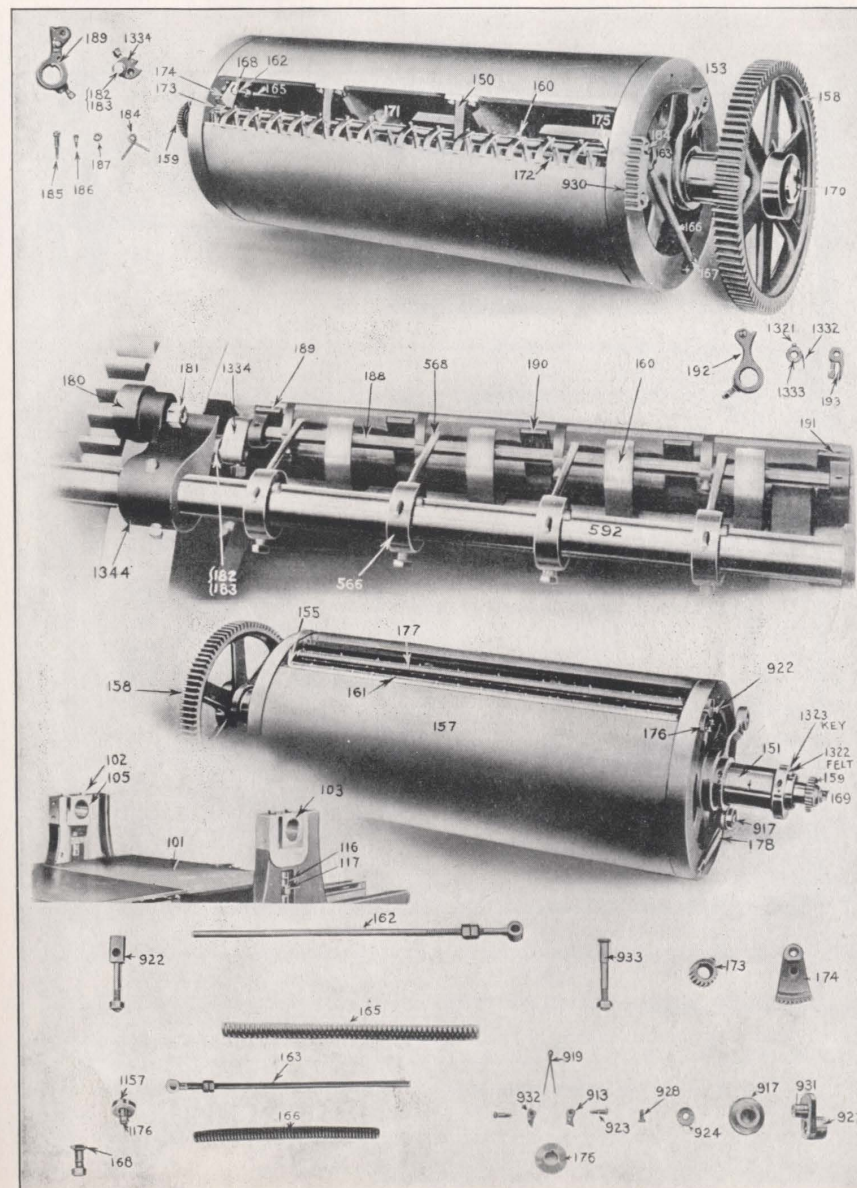


PLATE NO. 12

Always compare numbers on plate with the numerical index before ordering.



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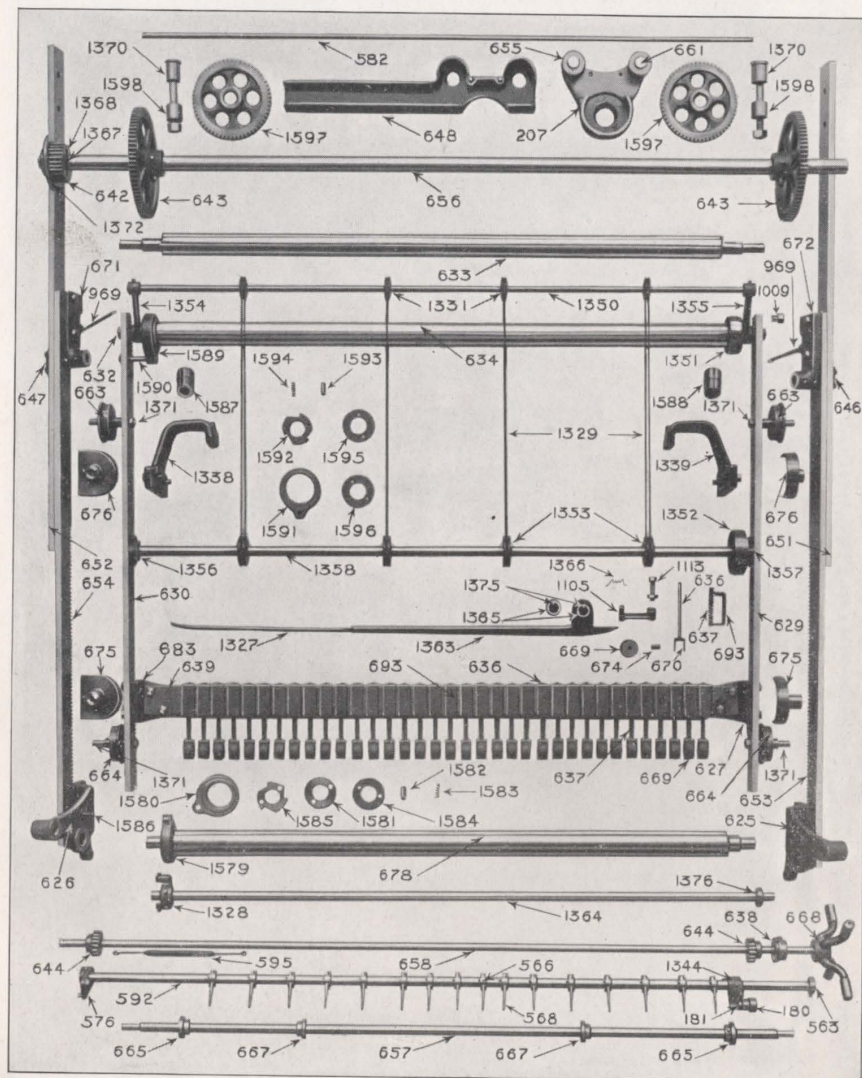


PLATE NO. 13

Always compare numbers on plate with the numerical index before ordering.

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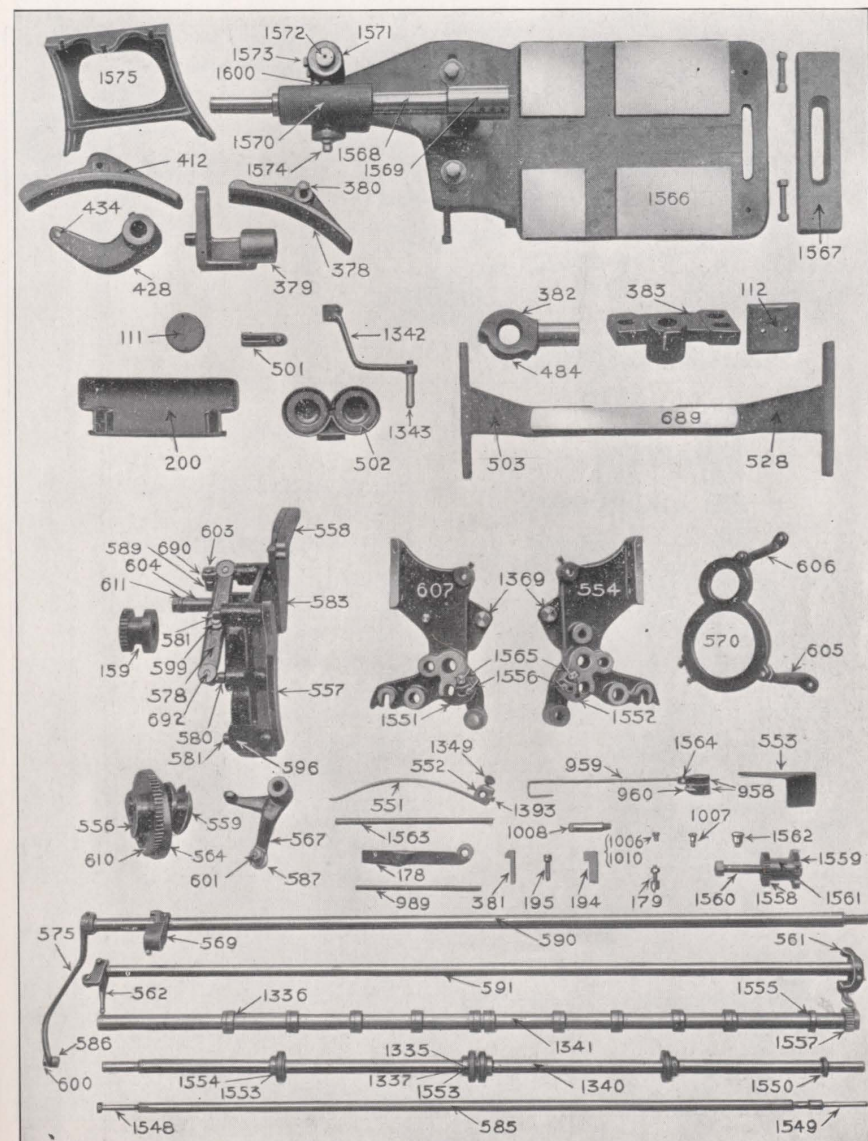


PLATE NO. 14

Always compare numbers on plate with the numerical index before ordering.



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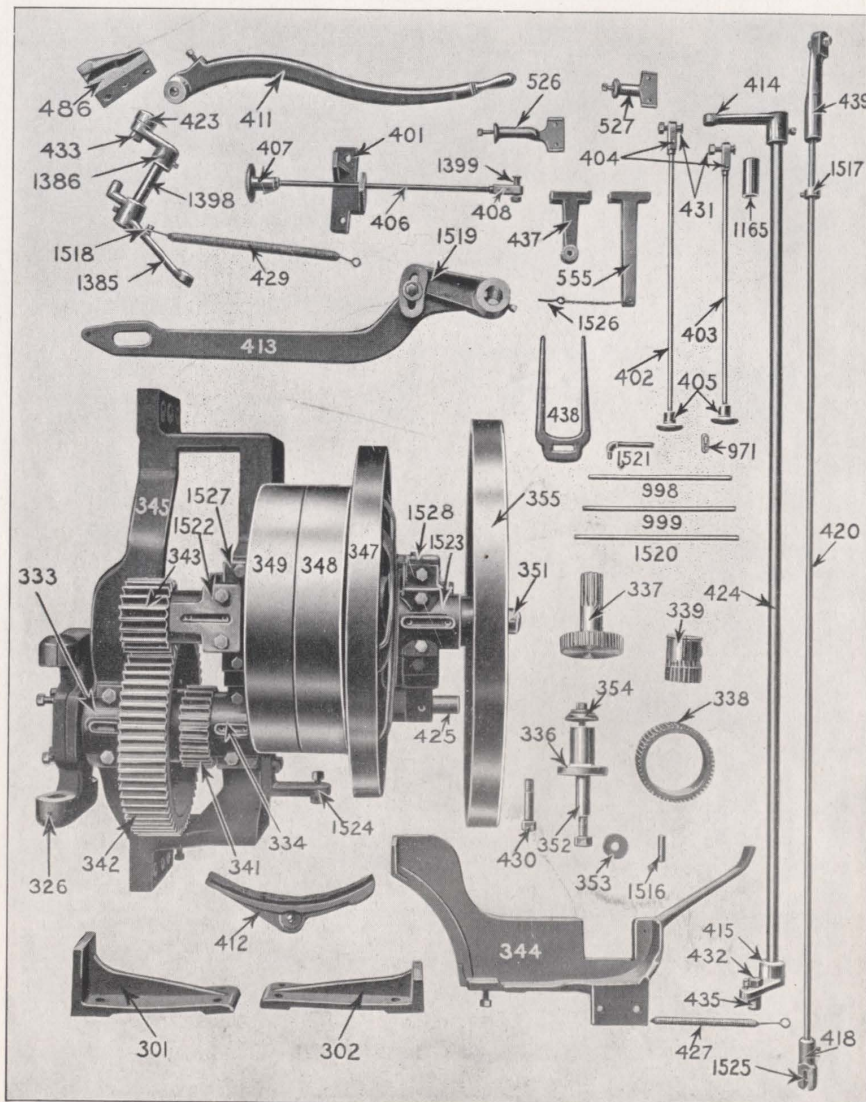


PLATE NO. 15

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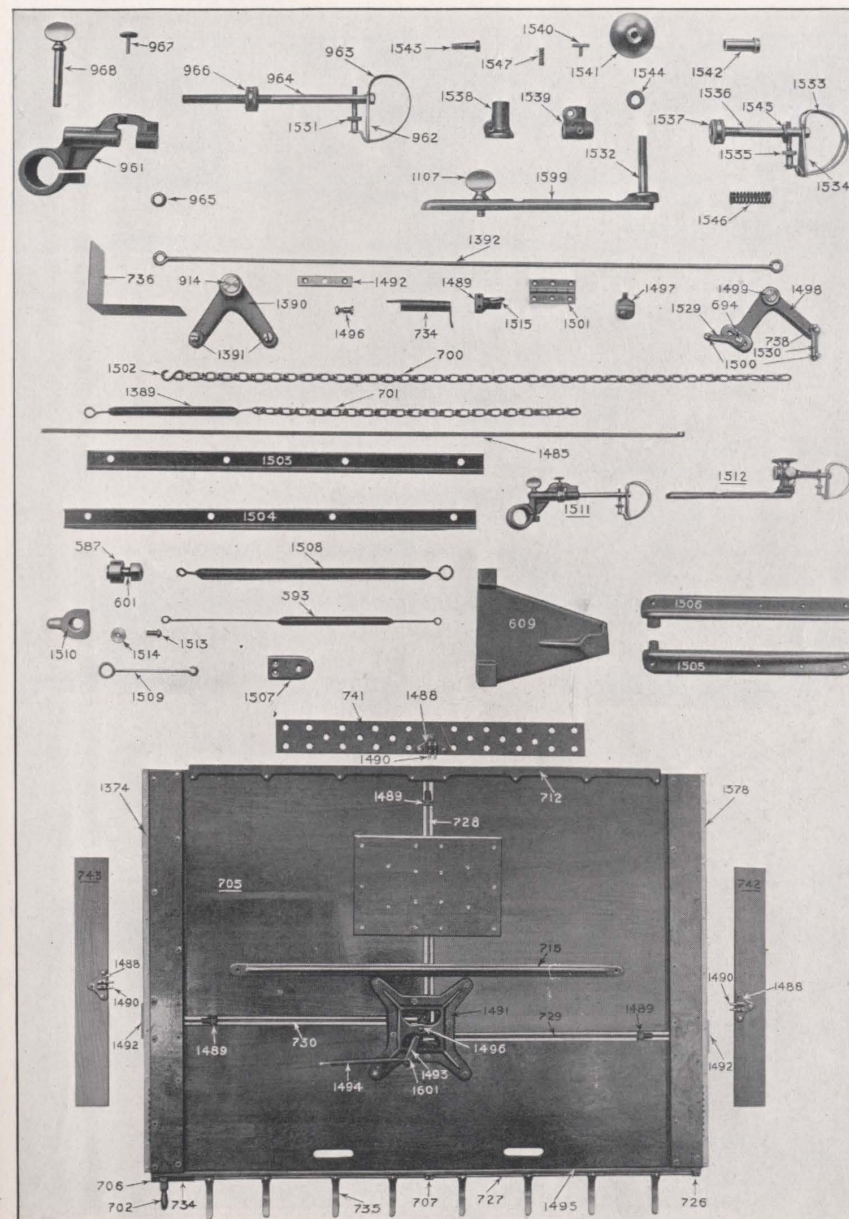


PLATE NO. 16

Always compare numbers on plate with the numerical index before ordering.



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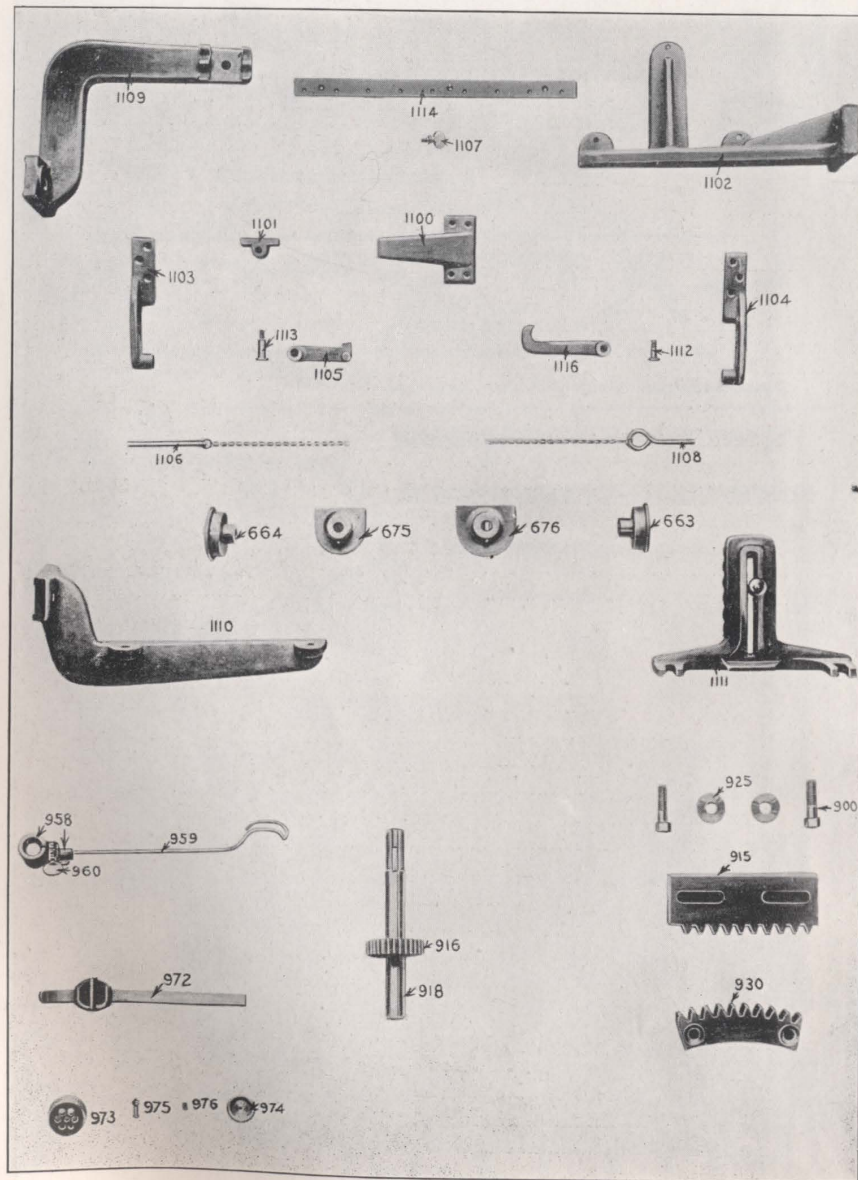


PLATE NO. 17

Always compare numbers on plate with the numerical index before ordering.

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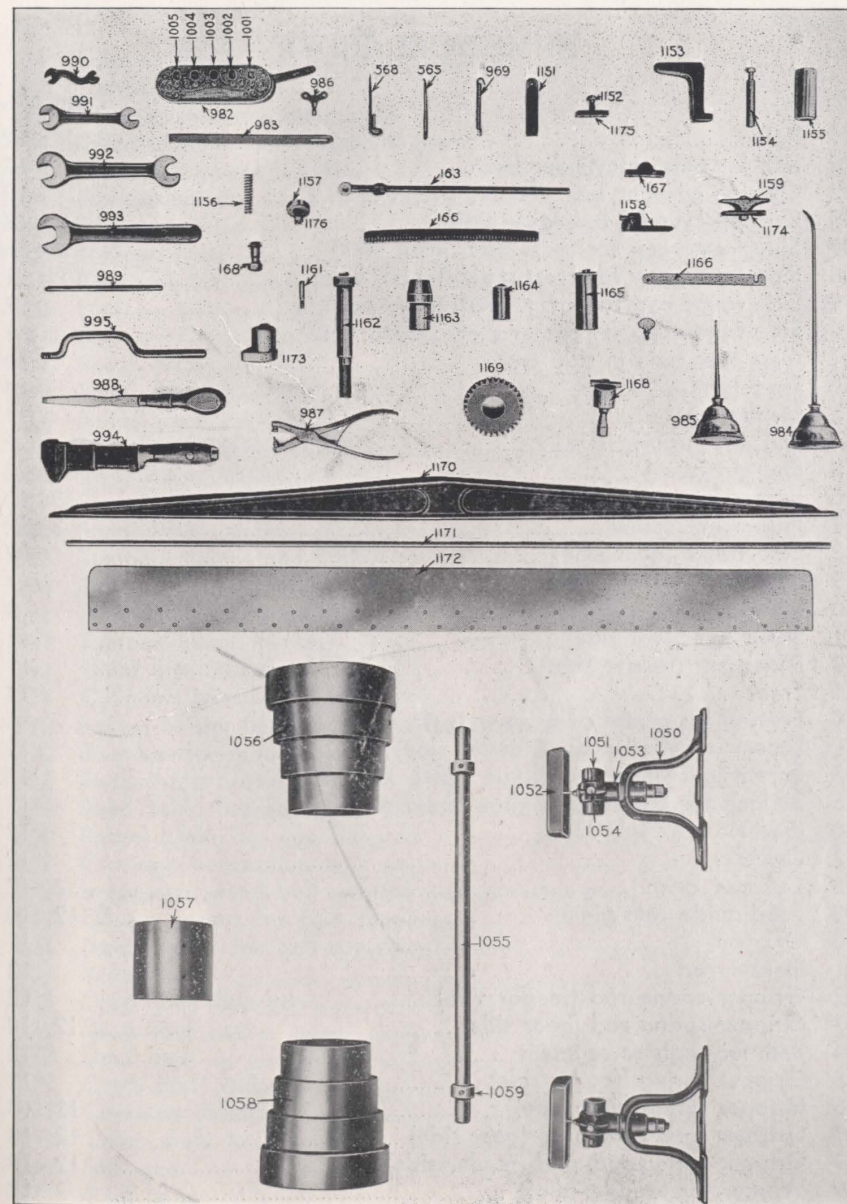


PLATE NO. 18

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

## NUMERICAL INDEX

Part No.	Plate No.
101 Bed	3, 11, 12
102 Bolt for outside cylinder box	12
103 Outside cylinder box, (feeder side)	12
105 Outside cylinder box (gear side)	12
107 Side frame cap for cross shaft (gear side)	Not shown
108 Side frame cap for cross shaft (feeder side)	1
109 Side frame cap for rocker shaft (gear side)	2
110 Side frame cap for rocker shaft (feeder side)	1
111 Cap over hole in side frame	14
112 Track end	14
113 Center girt	11
114 End girt (front)	2
115 End girt (rear)	2
116 Impression nut	3, 12
117 Impression screw	3, 12
118 Side frame (gear side)	2
119 Side frame (feeder side)	1
120 Ink Slab	3
121 Slider bar (gear side)	11
122 Slider bar (feeder side)	11
123 Track	11
150 Bearing for center of gripper shaft	12
151 Eccentric cylinder box (feeder side)	12
153 Eccentric cylinder box (gear side)	12
155 Bushing for blanket and draw sheet rod	12
156 (See No. 189 to 192)	12
157 Cylinder	12
158 Cylinder gear	2, 12
159 Feed guide cam pinion	3, 12, 14
160 Gripper	12
161 Blanket rod	12
162 Gripper spring rod (feeder side)	12
163 Gripper spring rod (gear side)	12, 18
164 Bolt for register segment	12
165 Gripper spring (feeder side)	12
166 Gripper spring (gear side)	12, 18
167 Gripper spring rod step (gear side)	12, 18
168 Gripper spring rod stud (feeder side)	12, 18
169 Washer for cylinder shaft	3, 12
170 Cylinder shaft	12

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
171 Gripper Shaft	12
172 Tympan shaft	12
173 Gripper shaft segment gear	12
174 Gripper spring rod segment gear	12
175 Collar for gripper shaft	12
176 Blanket and draw rod ratchet	12
177 Draw sheet rod	12
178 Tympan lever	12, 14
179 Pin catch for tympan lever	14
180 Delivery finger shaft roll	12, 13
181 Delivery finger shaft roll stud	12, 13
182 Sheet lifter cam roll	12
183 Sheet lifter crank roll stud	12
184 Sheet lifter shaft spring	12
185 Sheet lifter spring stud	12
186 Sheet lifter spring roll stud	12
187 Sheet lifter spring roll	12
188 Sheet lifter shaft	12
189 Tympan clamp (gear side)	12
190 Tympan clamp (center) without bearing	12
191 Tympan clamp (center) with bearing	12
192 Tympan clamp (feeder side)	12
193 Sheet lifter handle	12
194 Cylinder gear key	14
195 Screw, fillister head, eccentric cylinder box	14
200 Tool box for feed table bracket	2, 14
202 Feed table bracket (feeder side)	1
204 Feed table bracket (gear side)	2
206 Patent plate	Not shown
207 Carriage connection rack support	13
208 Impression stand bolt nut (the one next star gear)	11
225 Center socket for ball coupling	9
226 Inside collar for ball coupling	9
227 Yoke block	9
228 Drop hook slide box	9
229 Drop hook cam	1, 9
230 Duct cam	9
231 Cross shaft collar	9
232 Carriage crank	1, 9
233 Cross shaft gear	2, 9
234 Star gear	9
235 Rack hanger gib	9
236 Rack hanger	9

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Part No.	Plate No.
237 Drop hook	1, 9
238 Cross shaft gear hub	9
239 Carriage crank pin	1, 9
240 Star gear rack	9
241 Drop hook roll	1, 9
242 Star gear roll	9
243 Star gear rack ball roll	9
244 Cross shaft	1, 9
245 Inside driving shaft (or star gear shaft)	9
246 Star gear shoe (front)	9
247 Drop hook roll stud	1, 9
248 Star gear stud	9
249 Star gear rack stud	9
250 Set screw for carriage crank	9
251 Drop hook plate	9
252 Bolt for cross shaft gear	9
253 Star gear shoe (rear)	9
254 Check nut for ball coupling	9
255 Star gear rack stud washer (nut end)	9
256 Inside washer for ball roll spring	9
257 Outside washer for ball roll spring	9
258 Star gear rack stud washer (head end)	9
259 Spring for ball stud	9
260 Set screw for carriage connection cap	9
275 Air chamber (rear)	1, 11
276 Air chamber (front)	1, 2, 11
277 Back plate for plunger head	11
278 Hand nut for plunger head	11
279 Center plate for plunger head	11
280 Jaw for plunger head	11
281 Plunger leather	11
282 Spring for plunger head	11
283 Impression stand bolt nut (all except the one nearest star gear)	11
284 Bed screw (front)	11
285 Bed screw (rear)	11
286 Center impression wheel stand (gear side)	11
287 Center impression wheel stand (feeder side)	11
288 End impression wheel stand (gear side)	11
289 End impression wheel stand (feeder side)	11
290 Impression wheel bearing, all bearings for end stands	11
291 Impression wheel bearings, all bearings for center stands (except the one next star gear)	11

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Part No.	Plate No.
292 Impression wheel bearing, next to star gear	11
293 Impression stand bolt (all bearing bolts for feeder side and gear side end stands)	11
294 Impression stand bolt (all bearing bolts for feeder side and gear side center stands, except No. 1 and 2 next star gear)	11
295 Impression stand bolt (the one next to star gear for feeder side center stand)	11
296 Impression stand bolt (second from star gear, for feeder side center stand)	11
297 End impression wheel (both end stands)	11
298 Center impression wheel (both center stands)	11
299 Plunger head complete (see separate number for each part)	11
300 Impression stand wrench	11
301 Air chamber support (front)	11, 15
302 Air chamber support (rear)	11, 15
303 Plunger head stud	11
325 Ball stud for ball coupling	9
326 Outside collar for ball coupling	9, 15
327 Link, ball part, for ball coupling	9
328 Link, socket part for ball coupling	9
329 Link, socket cap, for ball coupling	9
330 Pin, ball coupling	9
333 Inside cap for outside driving shaft	15
334 Outside cap for outside driving shaft	15
336 Intermediate cylinder gear stud collar	15
337 Counter balance back up shaft and gear	15
338 Friction pulley gear	15
339 Loose pulley pinion	15
340 Intermediate cylinder gear	2
341 Cross shaft pinion	9, 15
342 Driving pinion	9, 15
343 Pulley pinion	15
344 Pinion and cross shaft gear guard	15
345 Outrigger	2, 15
347 Friction or back-up pulley	15
348 Tight pulley	15
349 Loose pulley	15
350 Outside driving shaft	9
351 Driving pulley shaft	15
352 Intermediate cylinder gear stud	15
353 Inside washer for intermediate cylinder gear stud	15
354 Outside washer for intermediate cylinder gear stud	15

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Part No.	Plate No.
355 Balance wheel	2, 15
378 Brake shoe for motor drive	14
379 Brake shoe lever for motor drive	14
380 Brake shoe stud for motor drive	14
381 Balance wheel key	14
382 Center bearing for cross shaft (see also No. 483)	14
383 Bracket, cross shaft bearing (see also No. 483)	14
384 Counterbalance lever bearing pin	10
385 Collar for counterbalance shaft	10
401 Triple treadle bracket	1, 15
402 Backup connection rod (feeder side)	1, 15
403 Backup connection rod (gear side)	2, 15
404 Backup connection head	15
405 Backup connection treadle	1, 2, 15
406 Trip connection rod	1, 15
407 Trip treadle	1, 15
408 Trip connection head	15
409 Shipper handle lever (feeder side)	1
410 Shipper handle lever (gear side)	2
411 Backup handle lever	2, 15
412 Backup shoe	14, 15
413 Backup treadle lever (long)	2, 15
414 Backup treadle lever (short)	1, 15
415 Backup spring lever	2, 15
418 Shipper rod end (feeder side)	1, 15
420 Shipper rod	15
421 Roller rest bracket (gear side)	2
422 Roller rest bracket (feeder side)	1, 3
423 Trip lever roll	15
424 Backup shaft (long)	1, 15
425 Backup shaft (short)	2, 15
427 Backup shaft spring	2, 15
428 Backup shoe lever	14
429 Trip lever spring	15
430 Backup handle lever stud	15
431 Backup connection stud	1, 2, 15
432 Backup spring lever roll stud	2, 15
433 Trip lever roll stud	15
434 Backup shoe pin	14
435 Backup spring lever roll	2, 15
437 Shipper post (feeder side)	1, 15
438 Shipper fork	2, 15
439 Shipper rod end (gear side)	15

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Part No.	Plate No.
440 Counterbalance spring rod (long end)	10
450 Counterbalance lever bearing	10
451 Adjusting spiral bearing (slider controller)	10
452 Bed spiral bearing (slider controller)	10
453 Track spiral bearing (slider controller)	10
454 Yoke brace (front)	10
455 Yoke brace (rear)	10
456 Counterbalance shaft bracket (rear)	10
457 Counterbalance shaft bracket (front)	10
458 Drop hook latch bracket	10
459 Floor clamp	10
460 Counterbalance spring rod collar (gear end)	10
461 Counterbalance spring rod collar (feeder end)	10
462 Spiral collar (slider controller)	10
463 Counterbalance connection	10
464 Cylinder lifting connection (gear side)	10
465 Cylinder lifting connection (feeder side)	10
466 Counterbalance spring rod coupling	10
467 Rocker shaft latch	10
468 Counterbalance lever (long)	10
469 Counterbalance lever (short)	10
470 Track spiral nut (slider controller)	10
471 Bed spiral nut (slider controller)	10
472 Counterbalance spring rod (short end)	1, 10
473 Rocker Shaft	1, 10
474 Spiral (slider controller)	10
475 Counterbalance spring (outside)	2, 10
476 Counterbalance spring (inside)	2, 10
477 Counterbalance connection and coupling stud	10
478 Counterbalance lever and connection stud	10
479 Cylinder lifting connection stud, top (feeder and gear side)	10
480 Cylinder lifting connection stud, bottom (feeder side)	10
481 Cylinder lifting connection stud, bottom (gear side)	10
482 Yoke	9, 10
483 Yoke plate	9, 10
484 Yoke cap for cross shaft bearing	10, 14
485 Rocker shaft stud	10
486 Rocker shaft cap stop	10, 15
487 Counterbalance shaft	10
499 Bearer screw	10
500 Bed bearer (feeder side and gear side)	3, 10
501 Fountain knife bracket	10, 14
502 Oil can bracket	2, 10, 14

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Part No.	Plate No.
503 Slider tie bracket (feeder side)	14
504 Fountain roll cap (gear side)	10
505 Fountain roll cap (feeder side)	3, 10
506 Fountain screw collar	10
507 Duct bell crank	2, 10
508 Fountain, main part	3, 10
509 Fountain back	3, 10
510 Fountain ductor	10
511 Fountain Screw	10
512 Fountain screw guard	10
513 Fountain back handle	10
514 Fountain roll	3, 8, 10
515 Bed gib, front (feeder and gear side)	10
516 Bed gib, rear (feeder side)	10
517 Bed gib, rear (gear side)	10
518 Cylinder gear guard	2
519 Rack hanger guard	10
522 Duct cam roll	10
523 Fountain shelf	10
524 Duct bell crank stud	2, 10
525 Duct cam roll stud	10
526 Cylinder gear guard support bracket (front)	2, 15
527 Cylinder gear guard support bracket (rear)	15
528 Slider tie bracket (gear side)	14
529 Fountain back washer (flatted)	8, 10
531 Bed gib shoe (specify in ordering whether wanted for gib, Nos. 515, 516, 517)	10
534 Fountain end	3, 10
551 Cylinder band	3, 14
552 Cylinder band bearing	3, 14
553 Counter bracket	14
554 Feeder guide shaft bracket (gear side)	14
555 Shipper latch bracket	1, 15
556 Drop finger cam	1, 3, 14
557 Gripper closing cam	14
558 Gripper opening cam	14
559 Wabble cam	14
560 Drop finger shaft adjusting screw	Not shown
561 Feed guide shaft adjusting collar (gear side)	14
562 Feed guide shaft adjusting collar (feeder side)	14
563 Delivery finger shaft collar	13
564 Feed guide cam	14
565 Delivery finger wire (round point)	18

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Part No.	Plate No.
566 Delivery finger collar	3, 12, 13
567 Finger shaft bell crank	14
568 Delivery finger wire (flat point)	3, 12, 13, 18
569 Drop finger shaft collar	3, 14
570 Wabble cam gear guard	1, 14
575 Drop finger shaft lever	1, 3, 14
576 Delivery finger shaft spring lever	3, 13
578 Gripper cross arm lever	14
579 Pin to hold delivery finger shaft spring	1, 3
580 Gripper cam pin (flatted)	14
581 Gripper cam pin (plain end)	14
582 Cloth screen rod	13
583 Gripper cam plate	14
584 Cylinder band rod (top)	1, 3
585 Cylinder band rod (bottom)	6, 14
586 Drop finger cam roll	3, 14
587 Feed guide cam roll	14, 16
589 Wabble cam roll	14
590 Drop finger shaft	3, 14
591 Feed guide shaft	3, 14
592 Delivery finger shaft	3, 12, 13
593 Feed guide shaft spring	16
595 Delivery finger shaft spring	3, 13
596 Gripper stand	14
599 Gripper stand and cross arm stud	14
600 Drop finger cam roll stud	3, 14
601 Feed guide cam roll stud	14, 16
603 Wabble cam roll stud	14
604 Wabble cam stud	14
605 Wabble cam gear guard support (long)	1, 14
606 Wabble cam gear guard support (short)	1, 14
607 Feed guide shaft bracket (feeder side)	1, 14
609 Feed table support	16
610 Wabble cam gear (flat)	3, 14
611 Wabble cam stud washer	14
625 Wood roll bearing (gear side)	2, 13
626 Wood roll bearing (feeder side)	1, 13
627 Tape tightener bracket (gear side)	13
629 Carriage rack (gear side)	2, 13
630 Carriage rack (feeder side)	1, 13
632 Carriage rod (front)	13
633 Idler roll	13
634 Carriage roll	13

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Part No.	Plate No.
636 Tape tightener spindle .....	13
637 Tape tightener spring .....	13
638 Slide rod latch collar .....	13
639 Tape tightener support .....	13
641 Carriage connection rack .....	1
642 Carriage connection rack gear .....	13
643 Large carriage gear .....	13
644 Carriage slide rod gear .....	13
646 Slide rod gib (gear side) .....	2, 13
647 Slide rod gib (feeder side) .....	1, 13
648 Carriage connection rack and gear guard .....	1, 13
651 Carriage slide rod, front (gear side) .....	2, 13
652 Carriage slide rod, front (feeder side) .....	1, 13
653 Carriage slide rod, rear (gear side) .....	2, 13
654 Carriage slide rod, rear (feeder side) .....	1, 13
655 Carriage connection rack support roll .....	13
656 Carriage gear shaft .....	13
657 Cylinder delivery wheel shaft .....	13
658 Slide rod gear shaft .....	13
661 Carriage connection rack support roll stud .....	13
663 Front carriage wheel .....	13, 17
664 Rear carriage wheel .....	13, 17
665 Cylinder delivery wheel (on cylinder bearer) .....	13
667 Cylinder delivery wheel (on packing) .....	13
668 Slide rod hand wheel .....	2, 13
669 Tape tightener wheel .....	13
670 Tape tightener wheel yoke .....	13
671 Idler roll bearing (feeder side) .....	13
672 Idler roll bearing (gear side) .....	13
674 Tape tightener wheel stud .....	13
675 Rear carriage wheel guard .....	1, 13, 17
676 Front carriage wheel guard .....	1, 13, 17
678 Large tape roll .....	13
683 Tape tightener bracket (feeder side) .....	13
689 Slider tie bar .....	14
690 Gripper cam plate pin (flatted) .....	14
691 Gripper cam plate pin (plain end) .....	Not shown
692 Gripper cam pin stud .....	14
693 Tape tightener spindle yoke .....	13
694 Chain bell crank connection head stud (side chain) .....	16
700 Front jogger chain .....	16
701 Side jogger chain .....	16
702 Front stop rod lever handle .....	1, 16

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Part No.	Plate No.
705 Jogger board (specify whether board fitted up complete, or woodwork only is wanted) .....	16
706 Front stop rod end bearing (feeder side) .....	16
707 Front stop rod center bearing .....	16
712 Rear cleat (jogger board) .....	16
715 Center cleat (jogger board) .....	16
726 Front stop rod end bearing (gear side) .....	16
727 Front stop rod .....	16
728 Slide rod, jogger board (rear) .....	16
729 Slide rod, jogger board (gear side) .....	16
730 Slide rod, jogger board (feeder side) .....	16
734 Front stop rod spring .....	16
735 Front stop jogger board .....	16
736 Split sheet stop .....	16
738 Chain bell crank connection head stud (front chain) .....	16
741 Jogger board wing (rear) .....	16
742 Jogger board wing (gear side) .....	16
743 Jogger board wing (feeder side) .....	16
751 First and second rear intermediate vibrator gear key .....	4
752 Front intermediate vibrator gear key (spiral) .....	4
753 Front intermediate vibrator gear key (spur) .....	4
776 Vibrator screw end bearing .....	5, 6
777 Vibrator rack brace .....	5
779 Vibrator roll bushing (feeder side, all except first from cylinder) .....	3, 5, 6
780 Vibrator bushing button (all except fourth from cylinder) .....	5, 6
782 Vibrator roll bushing (next to cylinder, feeder side) .....	3, 6
783 Fountain shaft collar .....	8
784 Fountain connection stud collar .....	7
785 Fountain connection (long) .....	2
786 Fountain connection (short) .....	2
788 Fountain bell crank .....	2
789 Vibrator fork .....	6
790 Intermediate vibrator gear (front spur) .....	4
791 Intermediate vibrator gear (first rear) .....	4
792 Intermediate vibrator gear (second rear) .....	4
794 Vibrator gear (front) .....	4
795 Vibrator gear (rear) .....	4
801 Vibrator bushing handle .....	5, 6
803 Duct lever (feeder side) .....	1, 5
804 Duct lever (gear side) .....	2, 8
805 Duct lever catch stud .....	5, 8
806 Set screw for duct lever catch .....	5, 8

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Part No.	Plate No.
807 Duct connection lever (gear side)	8
808 Fountain slot lever	2, 8
809 Fountain hand nut	2, 8
812 Vibrator roll hand nut	3, 6
813 Nut for form roll socket stud bolt	6
814 Fountain lever pawl	8, 10
815 Vibrator screw support pin	5
817 Vibrator rack	4, 6
819 Duct roll	1
820 Form roll	3, 4, 5, 6, 7, 8
821 Vibrator roll (front)	1, 3, 5, 8
822 Vibrator roll (rear)	1, 3, 6, 7
823 Duct connection lever adjusting screw	8
824 Vibrator screw (first from cylinder)	6
825 Vibrator screw (second from cylinder)	6
826 Vibrator screw (third from cylinder)	5
827 Vibrator screw (fourth from cylinder)	5
828 Duct shaft	1
845 Top rider roll socket (gear side)	3, 7
846 Top rider roll socket (feeder side)	3, 6
847 Duct spring	2
849 Vibrator button stud spring	5, 6
850 Fountain stand (gear side)	2, 8
851 Fountain stand (feeder side)	1, 3, 5
852 Vibrator stand (gear side)	2, 7
853 Vibrator stand (feeder side)	1, 3, 6
854 Duct spring rod step	2
855 Stud bolt for form roll socket	6
856 Vibrator bushing button stud	5, 6
858 Vibrator thimble	3, 6
859 Duct spring rod collar	2, 8
860 Washer for form roller socket stud bolt	6
863 Duct lever and connection stud	8
865 Duct connection and bell crank stud	2
866 Fountain bell crank fulcrum stud	2
867 Stud for fountain connection long and bell crank	2, 8
868 Stud for fountain connection short and cross shaft gear	7
869 Stud for fountain connection short and bell crank	2, 8
870 Fountain lever pawl stud	8, 10
871 Fountain slot lever and connection stud	2, 8
872 Duct spring washer	8
873 Duct lever catch	5, 8
900 Register rack bolt	17

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
909 Fountain clutch (roll end)	8, 10
910 Fountain clutch (shaft end)	8
911 Fountain dog	10
913 Blanket rod pawl	12
914 Bottom jogger bell crank stud	2, 16
915 Register rack	17
916 Fountain ratchet	8, 17
917 Gripper shaft crank roll	12
918 Fountain shaft	8, 17
919 Blanket and draw sheet rod pawl spring	12
922 Gripper spring rod step (feeder side)	12
923 Blanket and draw sheet rod pawl stud	12
924 Gripper crank stud washer (feeder side)	12
925 Washer for register rack bolt	17
927 Gripper shaft crank	12
928 Screw for gripper crank stud washer	12
930 Register segment	12, 17
931 Gripper shaft crank roll stud	12
932 Draw sheet rod pawl	12
933 Gripper spring rod segment fulcrum stud	12
934 Gripper crank stop	Not shown
935 Air valve (complete)	11
936 Fountain clutch (center)	8
958 Drop finger casting (specify whether part with thumb screw or part with wire is wanted)	14, 17
959 Drop finger wire	14, 17
960 Drop finger clamp screw	14, 17
961 Feed guide casting	16
962 Feed guide front	16
963 Feed guide curler	16
964 Feed guide spindle	16
965 Feed guide spindle spring	16
966 Feed guide spindle adjusting nut	16
967 Feed guide knurled thumb screw	16
968 Feed guide clamp screw	16
969 Cloth screen spring	13, 18
971 Oil tube support	15
972 Feed tongue	17
973 Air valve seat	2, 17
974 Air valve stem or valve proper	17
975 Air valve stud	17
976 Air valve spring	17
982 Counter (complete)	1, 18

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
983 Counter connection	18
984 Oil cup, 14-inch bent spout	2, 18
985 Oil cup, 6-inch straight spout	2, 18
986 Counter key	18
987 Eyelet punch	18
988 Screw driver (always specify if long or short)	18
989 Form clamp and blanket rod wrench	14, 18
990 Gripper wrench (always specify width of openings)	18
991 $\frac{1}{2}$ " x $\frac{3}{8}$ " wrench	18
992 $\frac{5}{8}$ " x $\frac{3}{4}$ " wrench	18
993 $\frac{7}{8}$ " wrench	18
994 Monkey wrench (always specify if large or small)	18
995 Impression nut wrench	18
998 Pipe for oiling outside driving shaft (top half of box)	15
999 Pipe for oiling cross shaft	15
1001 Counter dial (units)	18
1002 Counter dial (tens)	18
1003 Counter dial (hundreds)	18
1004 Counter dial (thousands)	18
1005 Counter dial (ten thousands)	18
1006 Counter connection stud, for cylinder box	14
1007 Blanket and draw sheet rod pawl spring stud	14
1008 Blanket and draw sheet rod stud	14
1009 Cloth-screen spring stud	13
1010 Counter connection stud, for counter	14
1050 Hanger bracket for counter shaft	18
1051 Hanger bearing for counter shaft	18
1052 Drip basin for counter shaft hanger	18
1053 Swivel for counter shaft hanger	18
1054 Pivot screw for counter shaft hanger	18
1055 Counter shaft	18
1056 Solid cone pulley	18
1057 Wide face pulley for counter shaft	18
1058 Split cone pulley	18
1059 Counter shaft collar	18
1100 Center bearing for feed tongue rod	17
1101 End bearing for feed tongue rod	17
1102 Bottom step bracket (feeder side)	1, 17
1103 Front leaf catch bracket (gear side)	17
1104 Front leaf catch bracket (feeder side)	17
1105 Carriage slide rod latch	2, 3, 17
1106 Carriage rack connection support pin	1, 17
1107 Clamp screw for side guide screw plate	16, 17

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1108 Pin and chain to hold jogger board	1, 17
1109 Feeder's platform bracket (feeder side)	1, 17
1110 Feeder's platform bracket (gear side)	2, 17
1111 Platform bracket leg	1, 17
1112 Feed table catch stud	17
1113 Carriage slide rod latch stud	2, 13, 17
1114 Side guide screw plate	17
1116 Feed table catch (feeder side)	17
1117 Top step bracket (feeder side)	1
1118 Bottom step bracket (gear side)	2
1119 Top step bracket (gear side)	2
1151 Front stop rod button	18
1152 Feed table height adjusting screw	18
1153 Back-up shoe stop	18
1154 Slider roll pin	11, 18
1155 Slider roll	11, 18
1156 Impression stand spring	18
1157 Gear end gripper spring disc	12, 18
1158 Bracket for back leaf catch	18
1159 Feed table button	18
1161 Form clamp stop pin	18
1162 Form clamp screw bolt	11, 18
1163 Vibrator screw bushing, rear, (first and second from cylinder)	6, 18
1164 Vibrator screw bushing, front, (third and fourth from cylinder)	5, 18
1165 Back-up shaft bushing	5, 18
1166 Back leaf catch	18
1168 Stud for large intermediate vibrator gear	18
1169 Large intermediate vibrator gear (front)	18
1170 Feed table front leaf cleat (across press)	18
1171 Feed tongue rod	18
1172 Feed board steel	18
1173 Form clamp	11, 18
1174 Button screw plate	18
1175 Feed table height adjusting screw plate	18
1176 Gear end gripper spring rod stud and washer	12, 18
1200 Feeder's platform (feeder side)	1
1201 Feeder's platform (gear side)	2
1202 Feeder's step (feeder side)	1
1203 Feeder's step (gear side)	2
1204 Cloth screen	Not shown
1205 Delivery tapes	2

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1207 Back-up treadle plate .....	Not shown
1300 Spiral nut bearing (vibrator shaft) .....	1, 3, 4
1301 Front thrust bearing for vibrator shaft, complete, (see separate number for each part) .....	4, 5
1302 Vibrator shaft spiral nuts .....	1, 3, 4
1303 Form roll lifting cam stud .....	5
1304 Spiral vibrator shaft .....	1, 3, 4
1305 Spiral vibrator shaft bearing (rear) .....	4
1306 Form roll lifting cam lever (gear side) .....	3, 7
1307 Spiral vibrator shaft bearing (front) .....	4
1308 Spiral vibrator shaft gear (rear) .....	4
1309 Spiral vibrator shaft gear (front) .....	4
1310 Form roll lifting cam lever (feeder side) .....	3, 5
1311 Form roll lifting thumb cam (No. 2, 4, 6, 8, from cylinder, feeder side; No. 1, 3, 5, 7, from cylinder, gear side) .....	3, 5, 6, 7, 8
1312 Form roll lifting thumb cam (No. 1, 3, 5, 7, from cylinder, feeder side; No. 2, 4, 6, 8, from cylinder, gear side) .....	3, 5, 6, 7, 8
1313 Form roll socket adjusting screw .....	3, 6
1314 Fountain trip connection .....	8
1315 Fountain trip connection stud .....	8
1317 Rear thrust bearing for vibrator shaft, complete (see separate number for each part) .....	4, 6
1318 Intermediate vibrator gear (spiral) .....	4
1319 Spiral vibrator shaft collar .....	4
1320 Form roll lifting cam roll .....	5
1321 Sheet lifter set screw .....	12
1322 Felt for eccentric cylinder box .....	12
1323 Eccentric cylinder box key .....	12
1326 Fountain trip connection guide .....	7
1327 Back carriage sheet guide wire .....	1, 13
1328 Carriage sheet guide shaft adjusting collar (feeder side) .....	13
1329 Front top string .....	1, 13
1330 Top string belt .....	2
1331 Front top string wheel .....	1, 13
1332 Sheet lifter .....	12
1333 Sheet lifter collar .....	12
1334 Sheet lifter crank .....	12
1335 Top cutter wheel .....	14
1336 Bottom cutter wheel .....	14
1337 Cutter blade .....	14
1338 Carriage rack gib (feeder side) .....	1, 13

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1339 Carriage rack gib (gear side) .....	2, 13
1340 Top cutter shaft .....	2, 14
1341 Bottom cutter shaft .....	1, 14
1342 Form roll lifting crank .....	3, 14
1343 Form roll lifting crank handle .....	3, 14
1344 Sheet lifter cam .....	12, 13
1345 Cutter jack shaft gear guard .....	2
1346 Feed table leaf (front) .....	1
1347 Feed table leaf (center) .....	1
1348 Feed table leaf (rear) .....	1
1349 Cylinder band thumb screw .....	3, 14
1350 Front top string shaft .....	13
1351 Front top string pulley .....	2, 13
1352 Rear top string pulley .....	2, 13
1353 Back top string wheel .....	1, 13
1354 Front top string shaft bearing (feeder side) .....	1, 13
1355 Front top string shaft bearing (gear side) .....	2, 13
1356 Rear top string shaft bearing (feeder side) .....	1, 13
1357 Rear top string shaft bearing (gear side) .....	2, 14
1358 Rear top string shaft .....	13
1359 Front delivery table bracket (feeder side) .....	1
1360 Front delivery table bracket (gear side) .....	2
1361 Rear delivery table bracket (feeder side) .....	1
1362 Rear delivery table bracket (gear side) .....	2
1363 Back carriage sheet guide casting .....	1, 13
1364 Carriage sheet guide shaft .....	1, 13
1365 Carriage top sheet guide bushing .....	13
1366 Rear top string wheel key .....	13
1367 Carriage connection rack gear key .....	13
1368 Carriage connection rack gear screw .....	13
1369 Slide rod support stud .....	1, 14
1370 Intermediate carriage gear stud .....	1, 13
1371 Carriage wheel stud .....	1, 13
1372 Carriage connection rack gear disc .....	1, 13
1373 Carriage connection .....	1
1374 Steel under jogger board (feeder side) .....	2, 16
1375 Key for back carriage sheet guide .....	13
1376 Carriage sheet guide shaft collar (gear side) .....	13
1378 Steel under jogger board (gear side) .....	16
1379 Form roll lifting side shaft (rear, feeder and gear side) .....	1, 2
1380 Form roll lifting side shaft (front, feeder and gear side) .....	1, 2
1381 Form roll lifting cross shaft .....	2, 3
1382 Front roller rest lever .....	1, 3

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.		Plate No.
1383	Rear roller rest lever .....	1, 3
1384	Carriage crank pin cap .....	1, 9
1385	Trip treadle lever .....	1, 15
1386	Trip stud and roll lever .....	1, 15
1387	Carriage gear shaft bearing (gear side) .....	2
1387-A	Carriage gear shaft bearing (feeder side) .....	Not shown
1388	Duct connection .....	2
1389	Jogger board safety spring .....	2, 16
1390	Jogger bell crank (bottom) .....	2, 16
1391	Jogger safety spring stud; Jogger bell crank and bottom connection stud .....	2, 16
1392	Bottom jogger connection .....	2, 16
1393	Cylinder band screw .....	3, 14
1394	Vibrator nut (first from cylinder) .....	3, 6
1395	Vibrator nut (second from cylinder) .....	3, 6
1396	Vibrator nut (third from cylinder) .....	3, 5
1397	Vibrator nut (fourth from cylinder) .....	3, 5
1398	Trip lever shaft .....	1, 15
1399	Trip treadle connection stud .....	1, 15
1400	Tool drawer .....	1
1401	Slide bracket for tool drawer .....	1
1402	Form roll socket spindle (feeder side, first from cylinder) .....	3, 6
1403	Form roll socket bottom (feeder side, first from cylinder) .....	6
1404	Form roll socket spindle (feeder side, second from cylinder) .....	3, 6
1405	Form roll socket bottom (feeder side, second from cylinder) .....	6
1406	Form roll socket spindle (feeder side, third from cylinder) .....	3, 6
1407	Form roll socket bottom (feeder side, third from cylinder) .....	6
1408	Form roll socket spindle (feeder side, fourth from cylinder) .....	3, 6
1409	Form roll socket bottom (feeder side, fourth from cylinder) .....	6
1410	Form roll socket spindle (feeder side, fifth from cylinder) .....	3, 5
1411	Form roll socket bottom (feeder side, fifth from cylinder) .....	5
1412	Form roll socket spindle (feeder side, sixth from cylinder) .....	3, 5

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.		Plate No.
1413	Form roll socket bottom (feeder side, sixth from cylinder) .....	5
1414	Form roll socket spindle (feeder side, seventh from cylinder) .....	3, 5
1415	Form roll socket bottom (feeder side, seventh from cylinder) .....	5
1416	Form roll socket spindle (feeder side, eighth from cylinder) .....	3, 5
1417	Form roll socket bottom (feeder side, eighth from cylinder) .....	3, 5
1418	Form roll socket spindle (gear side, first from cylinder) .....	7
1419	Form roll socket bottom (gear side, first from cylinder) .....	7
1420	Form roll socket spindle (gear side, second from cylinder) .....	7
1421	Form roll socket bottom (gear side, second from cylinder) .....	7
1422	Form roll socket spindle (gear side, third from cylinder) .....	7
1423	Form roll socket bottom (gear side, third from cylinder) .....	7
1424	Form roll socket spindle (gear side, fourth from cylinder) .....	7
1425	Form roll socket bottom (gear side, fourth from cylinder) .....	7
1426	Form roll socket spindle (gear side, fifth from cylinder) .....	8
1427	Form roll socket bottom (gear side, fifth from cylinder) .....	8
1428	Form roll socket spindle (gear side, sixth from cylinder) .....	8
1429	Form roll socket bottom (gear side, sixth from cylinder) .....	8
1430	Form roll socket spindle (gear side, seventh from cylinder) .....	8
1431	Form roll socket bottom (gear side, seventh from cylinder) .....	8
1432	Form roll socket spindle (gear side, eighth from cylinder) .....	8
1433	Form roll socket bottom (gear side, eighth from cylinder) .....	8
1434	Duct connection head .....	2

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1435 Form roll lifting cam (gear side) .....	3, 7
1436 Form roll lifting cam (feeder side) .....	5
1437 Vibrator bushing button (fourth from cylinder) .....	5
1438 Vibrator bushing pin (first from cylinder, top) .....	6
1439 Vibrator bushing pin (first from cylinder, bottom) .....	6
1440 Vibrator bushing pin (second from cylinder, bottom) .....	6
1441 Vibrator bushing pin (third from cylinder, bottom) .....	5
1442 Vibrator bushing pin (fourth from cylinder, bottom) .....	5
1443 Thumb screw for vibrator bushing button .....	5, 6
1444 Top bolt (for spiral vibrator shaft bearing) .....	5
1445 Bottom bolt (for spiral vibrator shaft bearing) .....	5
1446 Bolt for vibrator rack .....	5
1447 Front vibrator screw thimble .....	5
1448 Stud for end of vibrator screw .....	5
1449 Vibrator screw end washer .....	5
1450 Form roll socket lever spring yoke (feeder side vibrator stand) .....	6
1451 Form roll socket lever spring yoke (feeder side fountain stand) .....	5
1452 Form roll socket bottom lever (No. 1, 3, 5, 7, from cylinder, feeder side) .....	5, 6
(No. 2, 4, 6, 8, from cylinder, gear side) .....	7, 8
1453 Form roll socket bottom lever (No. 2, 4, 6, 8, from cylinder, feeder side) .....	5, 6
(No. 1, 3, 5, 7, from cylinder, gear side) .....	7, 8
1454 Individual form roll lifting lever (feeder and gear side vibrator stand) .....	6, 7
1455 Individual form roll lifting lever (feeder and gear side fountain stand) .....	5, 8
1456 Front ball thrust collar for vibrator shaft (next to gear) .....	5
1457 Front ball thrust cage with balls for vibrator shaft .....	5
1458 Front ball thrust collar for vibrator shaft (next to bearing) .....	5
1459 Rear ball thrust collar for vibrator shaft (next to bearing) .....	6
1460 Rear ball thrust cage with balls for vibrator shaft .....	6
1461 Rear ball thrust collar for vibrator shaft (next to shaft collar) .....	6
1464 Bushing for form roll socket stud bolt .....	6
1465 Form roll socket adjusting screw spring .....	6
1466 Form roll socket spindle spring .....	6
1467 Thumb cam stud .....	6

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1468 Form roll socket latch washer (outside) .....	6
1469 Form roll socket latch washer (inside) .....	6
1470 Form roll socket bell crank .....	6
1471 Spring pin, for form roll socket lever .....	6
1472 Pin for form roll socket bell crank .....	6
1473 Spiral nut wrench .....	5
1474 Form roll socket lever spring .....	5, 6, 7, 8
1475 Form roll socket lever spring yoke (gear side vibrator stand) .....	7
1476 Form roll socket lever spring yoke (gear side fountain stand) .....	8
1477 Vibrator bushing (gear side) .....	7, 8
1478 Vibrator bushing collar (gear side) .....	7, 8
1479 Vibrator bushing spring .....	7
1480 Vibrator bushing spring pin .....	7
1484 Fountain screw wire stud .....	8
1485 Fountain screw wire .....	16
1486 Fountain back washer, round .....	8
1487 Fillister head screw for fountain cap .....	8
1488 Jogger wing support bracket .....	16
1489 Jogger wing bracket support .....	16
1490 Wing bracket support pin (jogger board) .....	16
1491 Center plate for jogger board .....	16
1492 Jogger board slide rod guide .....	16
1493 Jogger board cross arm .....	16
1494 Jogger board spring .....	16
1495 Front brace for jogger board .....	16
1496 Jogger cross arm stud .....	16
1497 Jogger board slide rod collar .....	16
1498 Jogger bell crank (top) .....	16
1499 Top jogger bell crank stud .....	16
1500 Jogger chain stud .....	16
1501 Feed table hinge .....	16
1502 Jogger chain hook .....	16
1503 Feed table front leaf cleat (feeder side) .....	16
1504 Feed table front leaf cleat (gear side) .....	16
1505 Feed table catch (feeder side) .....	16
1506 Feed table catch (gear side) .....	16
1507 Feed table hinge plate .....	16
1508 Feed table counter balance spring .....	16
1509 Link for feed table counter balance spring .....	16
1510 Hook for feed table counter balance spring .....	16
1511 Feed guide, complete (see separate number for each part) .....	16

Always compare numbers on plate with the numerical index before ordering.



When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1512 Side guide, complete (see separate number for each part)	16
1513 Feed table sag adjusting screw	16
1514 Feed table sag adjusting nut	16
1515 Thumb screw for jogger wing support	16
1516 Pin for intermediate cylinder gear stud collar	15
1517 Shipper rod collar	15
1518 Trip lever spring stud	15
1519 Adjusting arm (back up shaft)	15
1520 Oil pipe for outside driving shaft (lower half of box)	15
1521 Oil pipe with elbow and nipple for yoke block	15
1522 Inside pulley shaft (top half)	15
1523 Outside pulley shaft box (top half)	15
1524 Shipper post (gear side)	15
1525 Shipper rod end pin	15
1526 Shipper rod latch pin	15
1527 Inside pulley shaft box (bottom half)	15
1528 Outside pulley shaft box (bottom half)	15
1529 Chain bell crank connection head for side chain	16
1530 Chain bell crank connection head for front chain	16
1531 Feed guide curler adjusting screw	16
1532 Side guide post stud	16
1533 Side guide curler	16
1534 Side guide front	16
1535 Side guide curler adjusting screw	16
1536 Side guide spindle	16
1537 Side guide spindle adjusting nut	16
1538 Side guide post	16
1539 Side guide bracket	16
1540 Knurled thumb screw for side guide	16
1541 Thumb nut for side guide post	16
1542 Side guide spindle bushing	16
1543 Side guide spindle bracket stud	16
1544 Side guide post washer	16
1545 Side guide spring washer	16
1546 Side guide spindle spring	16
1547 Hold down spring for side guide	16
1548 Cylinder band rod bolt (feeder side)	14
1549 Cylinder band rod bolt (gear side)	14
1550 Top cutter shaft collar	14
1551 Cutter shaft hold down (feeder side)	14
1552 Cutter shaft hold down (gear side)	14
1553 Rubber ring for cutter wheel	14
1554 Top cutter shaft friction wheel	14
1555 Bottom cutter shaft collar	14

Always compare numbers on plate with the numerical index before ordering.

When ordering parts, always give the shop number of the press. For location of this number see Plate No. 1.

Part No.	Plate No.
1556 Set screw for cutter shaft hold down	14
1557 Bottom cutter shaft gear	14
1558 Cutter jack shaft gear (inside)	14
1559 Cutter jack shaft gear (outside)	14
1560 Cutter jack shaft gear stud	14
1561 Cutter jack shaft gear bushing	14
1562 Oil cup for cylinder boxes	14
1563 Tympan lever wrench	14
1564 Drop finger casting stud	14
1565 Cutter shaft hold down stud	14
1566 Motor platform	14
1567 Platform shoe for motor drive	14
1568 Extension shaft for motor drive	14
1569 Coupling for motor shaft	14
1570 Bearing for motor shaft	14
1571 Bearing bracket for motor shaft	14
1572 Motor platform spindle	14
1573 Set screw for motor platform spindle	14
1574 Pivot screw for motor bearing bracket	14
1575 Platform leg (front of press)	14
1579 Wood roll clutch, complete (see separate number for each part)	13
1580 Wood roll clutch shell	13
1581 Wood roll clutch washer (inside)	13
1582 Wood roll clutch roll	13
1583 Roller clutch spring (wood roll)	13
1584 Wood roll clutch washer (outside)	13
1585 Wood roll clutch ratchet	13
1586 Roller clutch stud (wood roll)	13
1587 Carriage roll bushing (feeder side)	13
1588 Carriage roll bushing (gear side)	13
1589 Carriage roll clutch, complete (see separate number for each part)	13
1590 Roller clutch stud (carriage roll)	13
1591 Carriage roll clutch shell	13
1592 Carriage roll clutch ratchet	13
1593 Carriage roll clutch roll	13
1594 Roller clutch spring (carriage roll)	13
1595 Carriage roll clutch washer (inside)	13
1596 Carriage roll clutch washer (outside)	13
1597 Intermediate carriage gear	13
1598 Intermediate carriage gear thimble	13
1599 Side guide base	16
1600 Pivot pin for motor platform	14
1601 Jogger cross arm and spring stud	16

Always compare numbers on plate with the numerical index before ordering.



## CLASSIFIED INDEX OF UNITS

The names given below refer to the adjacent parts  
as well as to the parts actually named

Name of Part	Plate No.
Air spring	11, 17
Band, cylinder	3, 14
Back up	1, 2, 14, 15
Bed	3, 11, 12
Bed motion	9, 10
Boxes, cylinder	12
Chamber, air	1, 2, 11
Counter	1, 14, 18
Cutter	1, 2, 14
Coupling, ball	9, 15
Cylinder	12
Clamps, form	11, 18
Clamps, tympan	12
Cylinder lift	1, 9, 10
Cylinder driving mechanism	2, 12, 15
Carriage and parts	1, 2, 13, 17
Carriage driving mechanism	1, 9, 13
Counter balance parts	1, 2, 10
Delivery	1, 2, 12, 13
Drop fingers	3, 14, 17
Duct motion	2, 5, 8, 9, 10
Duct lever	5, 8
Duct bell crank	2, 10
Duct shaft	1
Feed guide motion	3, 14, 16
Feed table	1
Feed table bracket	1, 2
Feed table (small parts)	16, 17, 18
Frame	1, 2
Fountain	3, 8, 18
Fountain connection and slot lever	2, 8
Fountain stand	5, 8
Fingers, delivery and parts	3, 12, 13, 18
Gibs, carriage and slide rod	1, 2, 13
Gibs, bed and rack hanger	9, 10
Gears, bed motion	9, 15
Gears, cylinder	2, 12
Gears, carriage	13
Gears, cutter	14
Gears, vibrator	4
Guide, feed and side	3, 14, 16
Guide, carriage sheet and parts	1, 13

Name of Part	Plate No.
Girt	2, 11
Gripper motion	3, 12, 14, 18
Head, plunger	11
Hook, drop	1, 9
Hanger, rack	9
Inking arrangement	3, 4, 5, 6, 7, 8
Jogger board and parts	16, 17, 18
Jogger operating parts	1, 2, 16
Lifters, sheet	12
Motor drive outfit	14, 15
Outrigger	2, 15
Platform brackets and steps	1, 2, 14, 17
Pulleys, driving	2, 15, 18
Roller throw off parts	2, 3, 5, 6, 7, 8
Rack, register	17
Rack, carriage	1, 2, 13
Rack, carriage connection	1
Rack, star gear	9
Rack, vibrator	4, 6
Roller sockets	5, 6, 7, 8
Shaft, rocker	1, 10
Shaft, cross	1, 9, 14
Segment, register	17
Stand, impression	11
Shipper	1, 2, 15
Slider controller and tie	10, 11, 14, 18
Spiral and parts (vibrator motion)	3, 4, 5, 6
Spiral and parts (slider control)	10
Steam fixtures	18
Springs, top and parts	1, 2, 13
Trip mechanism	1, 8, 10, 15
Track	11, 14
Tape tightener	13
Tools, etc.	5, 10, 11, 14, 18
Vibrator motion	3, 4, 5, 6, 7, 8
Valve, air	2, 17
Wheel, cylinder delivery	13
Wheel, cutter	14
Wheels, impression	11, 18
Yoke	9, 10



